

Nuclear lunch Questions from the talk about
Observation of Sequential Upsilon Suppression in PbPb Collisions

- 1 What is QGP? How is it made in the lab? **[Dilu]**
- 2 What is meant by centrality? How is it related with the experimental results? **[Anthony]**
- 3 What are rapidity and pseudo rapidity? What is meant by $|Y| < 2.4$ in fig1? **[Shamim]**
- 4 How do they propose that the suppression could be used as a temperature probe for the QGP? Are there any other facilities/measurements for directly observing the QGP (other than from measuring Upsilon decays)? **[Brian]**
- 5 If this model is correct, what sort of temperature can be extracted? **[Nowo]**
- 6 How do the different components of the muon detector (HCAL,DT,RPC etc) work together? How are the muons differentiated from other charged particles? **[Linda]**
- 7 How are the Upsilon states identified by observing muons? **[Shushil]**
- 8 Why did they use upsilon states and not by other quarkonium states? **[Arbin]**
- 9 Why do they take the ratio of PbPb to pp collisions? (Do they exactly? If not explain how each ratio is used in the paper) **[Harsha]**
- 10 Can the QGP exist in p+p collisions? Since the Y(ns) states suppression in PbPb collision is being studied relative to pp collisions, does this mean that we can find the temperature of PbPb QGP relative to pp QGP? **[Azamat]**
- 11 Is the detectors energy resolution small enough to differentiate between 4s and 5s states? At what point are the states too close together to be unresolvable? **[Bing]**
- 12 What other collaborations are studying the upsilon mesons? If so, are they finding similar results in the relation to the QGP? **[Cody]**